

## Aberystwyth University

### *Comparison of three additive treatments on crimped grain wheat and maize silage quality*

Davies, David R.; Fychan, A. Rhun; Theobald, Vince; Bakewell, Eleanor L.; Scott, Mark B.; Broderick, G. A.; Adesogan, Adegbola Tolulope; Bocher, L. W.; Bolsen, K. K.; Conteras-Govea, F. E.; Harrison, J. H.; Muck, R. E.

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# Program

## XVth International Silage Conference

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Monday, 27 July 2009

**6:00 AM – Registration, Capitol Promenade**

**7:00 AM – Breakfast, Hall of Ideas**

**8:00 AM – Opening Session: Silage and the Environment, Madison Ballroom**

Session Chair: R. E. Muck, USDA, ARS, U.S. Dairy Forage Research Center, Madison, Wisconsin

*Invited Presentations:*

Silage and whole-farm nutrient management, Dr. C. Alan Rotz, USDA, Agricultural Research Service, University Park, Pennsylvania

Volatile organic compounds emitted from dairy silages and other feeds, Dr. Frank M. Mitloehner, University of California-Davis, Davis, California, I. L. Malkina, A. Kumar and P. G. Green

*Volunteered Presentations:*

Environmental issues surrounding silage production in Europe, A. J. Beardsmore, S. J. E. Heron, K. G. Brewer, and A. F. G. Jackson

Development of dietary and animal approaches to reduce methane emissions from dairy cows, T. Yan

High proportions of high quality grass silage in diets for dairy cows—how do they affect enteric methane emissions?, M. Patel, G. Börjesson, R. Danielsson, A. D. Iwaasa, E. Spörndly, E. Wredle, and J. Bertilsson

Novel results on the occurrence of volatile compounds in maize silages, K. Weiß, C. Kalzendorf, J. Zittlau and H. Auerbach

**10:00 AM – Break, Grand Terrace**

**10:30 AM – Silage Additives, Madison Ballroom**

Session Chair: T. W. J. Keady, Teagasc, Animal Production Research Centre, Athenry, Ireland

*Invited Presentation:*

Potential factors that may limit the effectiveness of silage additives, Dr. Limin Kung, Jr., University of Delaware, Newark, Delaware

*Volunteered presentations:*

Effects of silage additives on aerobic stability of maize silage, J. Latre, E. Wambacq, J. Nollet, and G. Haesaert

Efficacy of inoculation on the fermentation quality and aerobic deterioration of maize silage, J. Jatkauskas, V. Vrotniakienė and Ch. Ohlsson

Whole-crop legume/barley silages ensiled with different additives, E. Nadeau, O. Hallin, and J. Jansson

Influence of cutting height and use of additives on silage quality, U. Wyss

The effect of LAB silage inoculants on the rumen environment--current research status, Z. G. Weinberg, J. Miron, Y. Chen, R. E. Muck, F. Contreras-Govea, P. J. Weimer, I. Filya, and L. Kung Jr.

*Lactobacillus plantarum* MTD/1, its impact on silage and in vitro rumen fermentation, F. E. Contreras-Govea, R. E. Muck, G. A. Broderick, and P. J. Weimer

**12:30 PM – Lunch, Hall of Ideas**

**1:30 PM – Poster Session 1, Grand Terrace**

**3:30 PM – Silage Management, Madison Ballroom**

Session Chair: M. Rinne, MTT Agrifood Research Finland, Jokioinen, Finland

*Invited Presentations:*

What's New in Silage Management?, Dr. Brian J. Holmes, University of Wisconsin-Madison, Madison, Wisconsin, and K. K. Bolsen

Managing for Improved Aerobic Stability, Dr. Günter Pahlow, Institute for Crop and Soil Science, Federal Research Centre for Cultivated Plants, Braunschweig, Germany, and R. E. Muck

*Volunteered presentations:*

Investigations about the influence of compressing pressure and vibration on the compression of wilted grass, H. Schemel, C. Füll, and T. Hoffmann

Effect of silage corn hybrid on fermentation losses, H. A. van Schooten and J. W. van Riel

Relating dry matter density to dry matter loss in corn silage bunker silos in southeastern Pennsylvania, K. E. Griswold, P. H. Craig, and S. K. Dinh

Enhancing oxygen impermeability of stretch film for wrapped silage with the use of new polymers, G. Borreani, A. Revello Chion, and E. Tabacco

**6:30 PM – Cash bar, Hall of Ideas**

**7:00 PM – Conference Banquet and Entertainment, Hall of Ideas**

**Tuesday, 28 July 2009**

**7:00 AM – Breakfast, Hall of Ideas**

**8:00 AM – Silage and Animal Performance, Madison Ballroom**

Session Chair: G. Borreani, Dip. Agronomia, Selvicoltura e Gestione del Territorio, University of Turin, Italy

*Invited Presentations:*

Silage quality and dairy production, Dr. David R. Mertens, USDA, Agricultural Research Service, Madison, Wisconsin, and P. Berzaghi.

Silage quality and meat production, Dr. Pádraig O'Kiely, Teagasc, Grange Beef Research Centre, Ireland, M. G. Keane, and A. P. Moloney

*Volunteered presentations:*

The influence of season, ensiling and maturity on rate of grass digestion in vitro, M. Rinne, M. A. Akbar, and P. Huhtanen

In situ ruminal degradability of protein, fiber and dry matter in legume silages and hays as influenced by protein-binding polyphenols and conditioning methods, J. H. Grabber and W. K. Coblenz

The effects of maturity of maize at harvest and soybean supplementation, grass silage feed value and concentrate feed level on ewe and subsequent lamb performance, T. W. J. Keady and J. P. Hanrahan

Effect of grass silage harvesting time on the performance of growing/finishing bulls, Å.T. Randby, P. Noergaard and M.R. Weisbjerg

**10:00 AM – Break, Grand Terrace**

**10:30 AM – Poster Session 2, Grand Terrace**

**12:30 PM – Lunch, pick up box lunch in the Hall of Ideas**

**1:15 PM – Tours, meet buses at the Level 4 drive-through which is the main entry level**

**6:30 PM – Cash bar, Hall of Ideas**

**7:00 PM – Dinner and Entertainment, Hall of Ideas**

## Wednesday, 29 July 2009

**7:00 AM – Breakfast, Hall of Ideas**

**8:00 AM – Challenges in Silage Production, Madison Ballroom**

Session Chair: L. G. Nussio, Departamento de Zootecnia, University of São Paulo - ESALQ, Piracicaba, Brazil

*Invited Presentation:*

Challenges of silage production in the tropics, Dr. Adegbola T. Adesogan, University of Florida, Gainesville, Florida

*Volunteered presentations:*

Effect of supplementing maize silage to Jersey cows grazing annual ryegrass pasture, R. Meeske and G. D. van der Merwe

Mycotoxins in silages and total diets for dairy cows, F. Driehuis and M. C. te Giffel

Toxins from *Aspergillus fumigatus* in silages, K. Meyer, J. Ostertag, W. Richter, H. Spiekers, and J. Bauer

Control of *E. coli* O157:H7 in corn silages under anaerobic and aerobic conditions:

Effectiveness and mode of action of bacterial inoculants, A.F. Pedroso, A. T. Adesogan, O. C. M. Queiroz, and S. K. Williams

The change of deoxynivalenol concentration during silage fermentation: A model experiment of inoculating corn ears with fungi producing the mycotoxin, R. Uegaki, T. Tsukiboshi, H. Kobayashi and Y. Cai

Occurrence and survival in whole crop corn silage of *Acetobacter pasteurianus*, N. Nishino, C. Wang, Y. Li, S. Parvin and K. Kan

**10:00 AM – Break, Grand Terrace**

**10:30 AM – New Technologies/New Crops, Madison Ballroom**

Session Chair: J. H. Harrison, Washington State University, Puyallup, WA

*Invited Presentation:*

Advances in silage harvesting, Dr. Philippe Savoie, Agriculture and Agri-Food Canada, Sainte-Foy, Quebec, Canada, and K. J. Shinnars

*Volunteered presentations:*

Evaluating performance of corn hybrids for silage production on Wisconsin farms, J. G. Lauer, R. D. Shaver, J. G. Coors, P. Hoffman and N. DeLeon

Alternative conservation strategies for high-moisture barley grain, P. Stacey, P. O'Kiely, R. Hackett, B. Rice and F. P. O'Mara

Controlling of silage crop compaction during the pressing process in case of bagging technology, C. Maack, W. Buescher, and A. Wagner

Rapid analysis of soluble components in silage by Fourier transform (mid) infrared analysis, P. Udén

Prediction of biogas production potential of silages, F. Weissbach

Storage and pretreatment of biomass feedstocks by ensiling, K. J. Shinnars, M. F. Digman, R. E. Muck, and P. J. Weimer

**12:30 PM – Adjourn**

**1:30 PM – Beginning of Post-Conference, Getting More from Forages, Madison Ballroom**